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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
. 10/765,531	0/765,531 01/27/2004		Burn Jeng Lin	N1085-00225(TSMC2003-0656 1027		
54657	7590	09/28/2006 .		EXAMINER		
DUANE M			ROSASCO, STEPHEN D			
IP DEPART 30 SOUTH	•			ART UNIT	PAPER NUMBER	
• • • • • • • • • • • • • • • • • • • •	PHILADELPHIA, PA 19103-4196			1756		
				DATE MAILED: 09/28/2006	DATE MAILED: 09/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

			<i>:</i>
	Application No.	Applicant(s)	
	10/765,531	LIN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Stephen Rosasco	1756	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with	h the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statuf Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC .136(a). In no event, however, may a replay and will expire SIX (6) MONT te. cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communic NDONED (35 U.S.C. § 133)	
Status			
1) Responsive to communication(s) filed on 29 A	August 2006.		
	s action is non-final.		
3) Since this application is in condition for allowed		rs, prosecution as to the merit	s is
closed in accordance with the practice under			
Disposition of Claims			
4)⊠ Claim(s) <u>1-25</u> is/are pending in the application	า		
4a) Of the above claim(s) <u>1-8</u> is/are withdrawn			
5) Claim(s) is/are allowed.	Thom concluding the		
6)⊠ Claim(s) <u>9-25</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement		
	or orodion roquiroment.		
Application Papers			
9) The specification is objected to by the Examine			
10) \square The drawing(s) filed on 27 January 2004 is/are	e: a)⊠ accepted or b)□ ob	jected to by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct			
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152	<u> </u>
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority documen	ts have been received.		
2. Certified copies of the priority documen		plication No	
3. Copies of the certified copies of the price			
application from the International Burea		•	
* See the attached detailed Office action for a list	t of the certified copies not re	eceived.	
Attachment(s)	□	(777)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		mmary (PTO-413) /Mail Date	
Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Info	ormal Patent Application	
Paper No(s)/Mail Date <u>4/22/05</u> .	6) Other:	<u>.</u>	
Patent and Trademark Office			

Application/Control Number: 10/765,531

Art Unit: 1756

Detailed Action

Applicant's election without traverse of Group II (claims 9-25) in the reply filed on 8/29/06 is acknowledged.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Makinouchi (5,969,800).

The claimed invention is directed to a mask processing system comprising: means for receiving a mask or reticle substrate according to a predetermined reference system; means for determining an offset angle of a feature to be processed on the mask or reticle substrate with regard to either a horizontal or vertical reference direction of the predetermined reference system; means for rotating the mask or reticle substrate in a predetermined direction by the offset angle; and means for processing the feature on the mask or reticle substrate according to the predetermined reference system wherein the feature is processed in either the horizontal or vertical reference direction thereof.

The applicant discusses the limitations of the prior art in that due to the tool limitations, most critical layout patterns are oriented in horizontal or vertical reference

directions, and only patterns of relaxed dimension are allowed to be obliquely oriented.

And that it has been a difficult task to craft oblique critical patterns on a mask.

Makinouchi teaches (see claims 24-34) a scanning exposure apparatus wherein at least one of the mask stage and the substrate stage moves and rotates in a two-dimensional plane, and the first vector information includes a correction vector to correct the two-dimensional position and the rotation angle of the at least one of the mask stage and the substrate stage.

And further comprising a substrate position detector interacting with the substrate stage to detect a position of the substrate stage, wherein the control unit controls the two-dimensional position and the rotation angle of the mask stage according to the position of the substrate stage detected by the substrate position detector.

Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Stephen Rosasco whose telephone number is (571) 272-1389. The Examiner can normally be reached Monday-Friday, from 8:00 AM to 4:30 PM. The Examiner's supervisor, Mark Huff, can be reached on (571) 272-1385. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Rosasco

Primary Examiner

Art Unit 1756

S.Rosasco 09/25/06